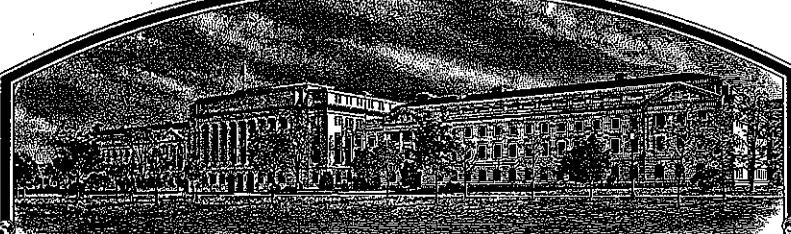


No.



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Pure Seed Testing, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HERETO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR CULTIVATING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

BLUEGRASS, KENTUCKY

*'Voyager II'*

In Testimony Whereof, I have hereunto set my hand  
and caused the seal of the Plant Variety  
Protection Office to be affixed at the City of  
Washington, D.C. this eleventh day of August, in  
the year two thousand and eight.

Attest:

Commissioner  
Plant Variety Protection Office  
Agricultural Marketing Service

Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE <b>APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE</b> <small>(Instructions and information collection burden statement on reverse)</small>	
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The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER  Pure Seed Testing, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME  PST-1QG-27	3. VARIETY NAME  Voyager II
4. ADDRESS (Street and No., or RFD No., City, State, and ZIP Code, and Country)  P.O. Box 449 Hubbard, OR 97032		5. TELEPHONE (Include area code)  (503) 651-2130	FOR OFFICIAL USE ONLY  PVPO NUMBER  200300251
		6. FAX (Include area code)  (503) 263-0703	FILING DATE  May 13, 2003
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.)  Corporation		8. IF INCORPORATED, GIVE STATE OF INCORPORATION  Oregon	9. DATE OF INCORPORATION  1975
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers)  Crystal Rose-Fricke Pure Seed Testing, Inc. P.O. Box 449 Hubbard, OR 97032			
11. TELEPHONE (Include area code)  (503) 651-2130		12. FAX (Include area code)  (503) 263-0703	13. E-MAIL  crystal@turf-seed.com
14. CROP KIND (Common Name)  Kentucky bluegrass		FILING AND EXAMINATION FEES:  FEES \$ 3652- RECEIVED DATE 5/13/03 CERTIFICATION FEE:  \$ 768.00 DATE 7/21/2008	
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)		19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act)  <input type="checkbox"/> YES (If "yes," answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no," go to item 22)	
		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES?  IF YES, WHICH CLASSES? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED	
		21. DOES THE OWNER SPECIFY THAT THE CLASSES BE LIMITED AS TO NUMBER OF GENERATIONS?  IF YES, SPECIFY THE 6 <input checked="" type="checkbox"/> FOUNDATION 6 <input checked="" type="checkbox"/> REGISTERED 7 <input checked="" type="checkbox"/> CERTIFIED NUMBER 1, 2, 3, etc.  (If additional explanation is necessary, please use the space indicated on the reverse.)	
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U.S. OR OTHER COUNTRIES?  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)?  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO  IF YES, GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue will be deposited in a public repository and maintained for the duration of the certificate.  The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.  Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.			

SIGNATURE OF OWNER

NAME (Please print or type)

Crystal Rose-Fricke

SIGNATURE OF OWNER

NAME (Please print or type)

Joseph K. Wipff, Ph.D.

CAPACITY OR TITLE

President

DATE

2/28/03

CAPACITY OR TITLE

Taxonomist/Plant Breeder

DATE

13/05/2003

#200300251

**Exhibit A - Revised**

**Origin and Breeding History of Voyager II (PST-1QG-27) Kentucky Bluegrass**

Pure Seed Testing, Inc., of Hubbard, OR developed Voyager II (PST-1QG-27) Kentucky bluegrass (*Poa pratensis* L.). Voyager II originated as a single, apomictic plant selected from an aberrant derivative from Voyager.

In the fall of 1996, seed of Voyager was germinated in a growth chamber and the seeds quickest to germinate were selected. Thirteen plants were selected and planted into pots in the greenhouse. In March of 1997, the plants were transplanted into a spaced plant nursery. During the summer of 1997 a promising aberrant was selected from 13 quick germinating plants and given the experimental code PST-1QG-27. Seed was harvested and used to establish turf plots in Oregon and at Rutgers University in New Jersey. During 1999 and 2000, Voyager II was evaluated for seed yield and turf performance.

A 480-plant breeder seed nursery was established fall 1999 in Oregon. Aberrant, off-type plants were removed from the nursery leaving approximately 400 plants. Breeder seed was harvested in 2000 and 2001.

Voyager II seed production is limited to three generations of increase from breeder seed – one each of foundation, registered and certified. It is a stable and uniform variety. Pure Seed Testing, Inc. maintains Breeder seed in Oregon and will regenerate as necessary. Voyager II has shown stability and uniformity multiplied from Breeder seed through the Certified seed generation.

Voyager II is a facultative apomict with approximately 85% of its progeny appearing genetically identical to the maternal plant. It has produced turf and seed fields of equal quality, acceptable uniformity, and good stability. No variants have been observed in the replication or multiplication of Voyager II Kentucky bluegrass.

**# 2 0 0 3 0 0 2 5 1**

**Exhibit B.**

**Novelty Statement for Voyager II (PST-1QG-27) Kentucky Bluegrass**

Voyager II (PST-1QG-27) Kentucky bluegrass is most similar to the variety Voyager, but upon close comparison, the following differences are found.

1. Voyager II has a mature plant height at least 24 cm shorter than Voyager (Tables 1 and 2).
2. Voyager II has a flag leaf height at least 19 cm shorter than Voyager (Tables 1 and 2).
3. Voyager II has a panicle length at least 2.6 cm shorter than Voyager (Tables 1 and 2).
4. Voyager II has a tiller leaf length at least 5 cm shorter than Voyager (Tables 1 and 2).

#200300251

Table 1. 2002 mean morphological measurements for entries in a Kentucky bluegrass seed yield trial seeded fall of 2000 near Hubbard, OR.

Entry	Flag						Tiller						Branches					
	Plant Height (cm)	Leaf Height (cm)	Sheath Length (cm)	Panicle Length (cm)	Length from Flag Leaf to Inflorescence (cm)	Whorl (#)	Tiller in Lowest Whorl (cm)	Leaf Length (mm)	Width (mm)	Length (mm)	Leaf Length (mm)	Width (mm)	Length (mm)	Leaf Length (mm)	Width (mm)	Length (mm)	Tiller Count (#/12.7 cm Row)	
Voyager	89.4	47.7	12.8	10.2	11.1	36.9	3.3	11.75	3.7	6.3	2.3	52.8						
Voyager II	63.0	28.4	8.6	6.7	8.5	28.9	3.7	6.4	3.0	4.7	2.8	73.0						
Baron	58.5	25.8	8.9	6.7	7.3	27.4	4.2	4.8	2.9	3.4	2.5	65.3						
LSD (0.05)	2.4	2.0	1.1	0.6	0.8	1.6	0.3	0.6	0.3	0.4	0.3	17.6						

Table 2. 2001 mean morphological measurements for entries in a Kentucky bluegrass seed yield trial seeded fall of 2000 near Hubbard, OR

Entry	Plant			Flag Leaf			Panicle			Tiller Leaf		
	Height (cm)	Height (cm)	Length (cm)	Height (cm)	Length (cm)							
Voyager	89.1	53.3	13.4	15.5								
Voyager II	64.2	27.9	9.0	9.3								
LDS (0.05)	2.7	2.3	0.5	0.7								

A

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this collection of information is (0581-0055). The time required to complete this information collection is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

**U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
SCIENCE AND TECHNOLOGY PROGRAM  
PLANT VARIETY PROTECTION OFFICE  
BELTSVILLE, MD 20705**

EXHIBIT C  
(BLUEGRASS)

**OBJECTIVE DESCRIPTION OF VARIETY  
BLUEGRASS  
(*Poa spp.*)**

NAME OF APPLICANT(S)	TEMPORY DESIGNATION	VARIETY NAME
Pure Seed Testing, Inc.	PST-1QG-27	Voyager II
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)		<u>FOR OFFICIAL USE ONLY</u> PVPO NUMBER <b># 2 0 0 3 0 0 2 5 1</b>
P.O. Box 449, Hubbard, OR 97032		

Select the number which characterizes the variety in the features described below. For measured characteristics use leading zeros as necessary in order to fill all blanks (e.g. 089). Those characteristics marked with a star \* are preferred to be recorded. Any others should be recorded to help establish novelty or uniqueness. Characteristics described, including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors; designate the system used:

Describe location of test area, conditions, and number of Plants used: Pure Seed Testing Research Farm near Hubbard, OR. Sixty plants measured from P.V.P. nursery planted in a randomized complete block with three replications of 20 plants each.

1. SPECIES:

2

*Poa compressa*

2 = *P. pratensis*

3 = *P. trivialis*

4 = Others (Please Specify):

Chromosome Number

2. ADAPTATION: (0 = Not Tested, 1 = Not Adapted, 2= Adapted, 3 = Well Adapted)

2

Northeast

0

Transitional Zone

0

Southeast

2

North Central

2

Pacific N.W.

2

Intermountain

2

Southwest (CA, AZ)

0

Other (Please Specify):

3. MATURITY (At first anthesis): Give test area near Hubbard, Oregon.

★ 5

1 = Very Early

2 = Early (Delta, Mystic)

3 = Medium Early (Fylking, Nugget)

4 = Medium late (Newport, Adelphi, Aquila)

5 = Late (Merion, Baron, Enmundi)

6 = Very Late (Pacific)

Date of First Anthesis: May 28, 2001

Number of days earlier than

\*

}

1 = Nugget

2 = Frylking

3 = Delta

4 = Merion

5 = Newport

6 = Baron

Number of days later than

\*

}

7 = Mystic

8 = Sabre

9 = Reubens

10 = Moonlight

4. PLANT HEIGHT (At maturity-Average of longest shoot of 10 plants from soil surface to top of panicle): Test Area Hubbard, OR (Table 1)

3

1 = Short

3 = Medium tall (Merion, Adelphi)

2 = Medium short (Baron, Fylking, Mystic)

(Table 1)

4 = Tall (delta)

5 = Very tall

6    3    .0 cm Height

cm Shorter than

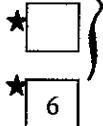


1 = Nugget

2 = Fylking

3 = Delta

Height same as

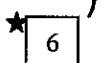


4 = Merion

5 = Newport

6 = Baron

4    .5 cm Taller than



7 = Mystic

8 = Sabre

9 = Reubens

5. GROWTH HABIT:

2

Habit: 1 = Prostrate (Nugget)   2 = Semiprostrate (Merion)

3 = Erect (Delta)

cm Amount of spread by rhizomes in 1 year (give test area: \_\_\_\_\_ )

6. LEAF BLADE:

3

Green color: 1 = Light green (Mystic)

3 = Moderately dk. green (Merion, Adelphi)

2 = Medium green (Fylking, Bonnieblue)

4 = Very dk. green (Nugget, Glade, Enmundi)

1

Bluegreen color: 1 = Not bluegreen (Mystic, Touchdown, Parade)

3 = Bluegreen (Nugget, Enmundi, Adelphi)

2 = Moderately bluegreen (Merion, A-34)

4 = Strongly bluegreen (Majestic)

6

Winter color: 1 = Light green

2 = Dark green

3 = Light purple

4 = Dark purple

5 = Not purple

6 = Not green or purple

1

Hairs upper side: 1 = Absent (Nugget)

2 = Sparse (Merion)

3 = Dense (Park)

1

Hairs lower side:

1 = Absent (Fylking, Merion)

2 = Sparse

3 = Dense (Nugget)

2

Luster upper side:

1 = Shiny (Eclipse, Enmundi)

2 = Dull (Aquila, Parade)

1

Luster lower side:

1 = Shiny (Mystic, Enmundi)

2 = Dull (Barbie, Eclipse)

1

Margin hairs (Fringe on Margin or Base):

1 = Absent (Delta)

2 = Present (Fylking, Merion)

3    .0    0

mm Width (tiller leaf)

mm Narrower than



1 = Nugget

2 = Fylking

3 = Delta

0    .1

mm Wider than



4 = Merion

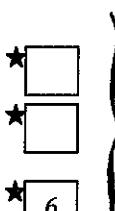
5 = Newport

6 = Baron

6    4    .0

mm Length (tiller leaf)

mm Shorter than



1 = Nugget

2 = Fylking

3 = Delta

1    .6

mm Longer than



4 = Merion

5 = Newport

6 = Baron

7 = Mystic

8 = Sabre

9 = Reubens

2 Position of flag leaf (angle to stem): 1 = Appressed 2 = Open angle, yet stiff 3 = Nodding

7. LEAF SHEATH: See Table 1

# 2 0 0 3 0 0 2 5 1

67 mm sheath length

- ★  Seedling Color (base of sheath): 1 = Green (Nugget, Merion) 2 = Red (Delta) *Will send an Addendum*
- ★  1 Hairs on Margin: 1 = Absent (Fylking) 2 = Present (Nugget)
- ★  1 Margin Roughness (to touch): 1 = Smooth (Delta) 2 = Rough (Sabre)
- 1 Hairs on Surface: 1 = Absent ( ) 2 = Present (Nugget)
- 1 Surface Roughness (to touch): 1 = Smooth (Fylking) 2 = Rough (Ram I)
- 1 Hairs on both sides just beneath leaf blade (under collar): 1 = Absent (Merion) 2 = Present (Nugget)
- ★  1 Hairs on ligule: 1 = Absent (Fylking) 2 = Short (Baron) 3 = Long (Nugget)
- 1 Glaucosity: 1 = Absent (Mystic, Enmundi) 2 = Present (Birka)
- 1 Keel: 1 = Absent (Ram I) 2 = Present (Adelphi)

8. PANICLE (Mature Plant):

8 5 .0 mm Length (Lowest branch whorl to top, for 10 plants) Test Area: See Table 1.

mm Shorter than

★  1 = Nugget 2 = Fylking 3 = Delta

Panicle same as

★  4 = Merion 5 = Newport 6 = Baron

1 3 .0 mm Longer than

★  7 = Mystic 8 = Sabre 9 = Reubens  
6 }

- ★  2 Color (at 50% flowering): 1 = Not red (Fylking) 2 = Red (Nugget)
- 2 Shape of Rachis (opposite lower side branches): 1 = No bend (Nugget) 2 = Bend (Merion)
- ★  2 Collar: 1 = Opened (Nugget) 2 = Closed (Merion)
- ★  2 Branches Attitude (Lowest whorl): 1 = Drooping (America, Prato) 2 = Horizontal (Merion) 3 = Ascending (Tundra)
- 4 Number of main branches in lowest whorl:
- ★  1 Panicle habit: 1 = Nodding (Newport) 2 = Upright (Nugget)
- ★  1 Panicle type: 1 = Open 2 = Intermediate 3 = Compact
- 1 Anther color (anthesis): 1 = Purple 2 = Yellow 3 = Brown

9. LEMMA

★  3 Keel 1 = Glabrous 2 = Slightly pubescent 3 = Pubescent

★  3 Marginal Nerves

2 Intermediate Nerves: 1 = Distinct 2 = Obscure

3 Basal Webbing: 1 = Absent 2 = Scant (Baron) 3 = Copious (Merion)

## 10. SEED: (Floret-not dehulled)

#200300251

 2

Apomixis Percentage: 1 = more than 95      2 = 85 to 95

3 = less than 85

Phenol Reaction: 1 = none-lemma removed (Merion)      2 = Beige (Cougar)      3 = Brown (Windsor)  
4 = Black (Mystic -2hrs)      5 = Black (-24hrs)

	.7	5
--	----	---

 mm Width (average of 10)     
 

		2
--	--	---

 mm Length

2	3	3	0
1	9	1	4

Milligrams per 10,000 seed

 6

1 = Nugget      2 = Frylking      3 = Delta

4 = Merion      5 = Newport      6 = Baron

7 = Mystic      8 = Sabre      9 = Reubens

--	--	--

Weight same as

Milligrams more than

 2Weight Class (g per 10,000 seed): 1 = Light (< 3g Sydsport, Merion)  
2 = Medium (3g - 4g Adelphi, Parade)  
3 = Heavy (> 4g Fylking, Nugget)

## 11. ENVIRONMENTAL RESISTANCE:

(0 = Not Tested; 1 = Very Susceptible, 2 = Moderately Susceptible, 3 = Moderately Resistant, 4 = Highly Resistant)

 2Cool Temperature  
(Winter color) 0

Cold (injury)

 0

Heat

 0

Drought

 2

Shade

 0

Low Fertility

 0Acid Soil  
(<pH 5.5) 0Alkalinity  
(pH > 7.5) 2

Salinity

 0

Soil Compaction

 0

Poor Drainage

 0

Air Pollution

Other (Please Specify):

## 12. DISEASE RESISTANCE:

(0 = Not Tested; 1 = Very Susceptible, 2 = Moderately Susceptible, 3 = Moderately Resistant, 4 = Highly Resistant)

 0Melting-Out *Drechslera poae* (*Helminthosporium vagans*) 0*Sclerotinia S. borealis* 0Helminthosporium Leaf Spot *Bipolaris sorokiniana* 4*Stem Rust Puccinia graminis* 3Brown Patch *Rhizoctonia solani* 4*Stripe Rust P. striiformis* 4Powdery Mildew *Erysiphe graminis* 4*Leaf Rust P. poae-nemoralis* 0Stripe Smut *Ustilago striiformis* 4*Orange Stripe Rust P. poarum* 0Flag Smut *Urocystis agropyri* 0*Pythium Blight Pythium spp.* 4Pink Snow Mold *Fusarium nivale* 0*Red Thread Corticium fujciforme* 3Ergot *Claviceps purpurea*

Other (Please Specify):

 0Typhula Blight *Typhula* spp.

Other (Please Specify):

 4Dollar Spot *Sclerotinia homoeocarpa*

## 13. INSECTS, NEMATODES, RESISTANCE:

(0 = Not Tested; 1 = Very Susceptible, 2 = Moderately Susceptible, 3 = Moderately Resistant, 4 = Highly Resistant)

- 0 Chinch Bug *Blissus* spp. (give species: )
- 0 Sod Webworm *Crambus* spp. (give species: )
- 0 Bluegrass Billbug *Sphenophorus parvulus*
- 0 White Grub: Japanese Beetle, Chafers (give species )
- 0 Greenbug Aphid *Schizaphis graminum*
- 0 Other (Please Specify):
- 0 Other (Please Specify):

## 14. Give variety or varieties that most closely resemble the application variety. For the following characteristics indicate Degree of Resemblance by placing in the column marked D.R., one of the following numbers: 1 = Application variety is less than comparison variety; 2 = Same as; 3 = More than, better, greater, darker, more disease resistant, etc.

CHARACTER	VARIETY	D.R.	CHARACTER	VARIETY	D.R.
Maturity-heading	Voyager	3	Leaf Width	Voyager	3
Height	Voyager	1	Leaf Color Spring	Voyager	2
Seed Size	Baron	1	Leaf Color Summer	Voyager	2
Seed Weight	Baron	1	Leaf Color Winter	Voyager	2
Cold Injury	Voyager	2	Drought	Voyager	2
Heat	Voyager	2	Disease**	Voyager	3
Shade	Voyager	2			

\*\*Specify each disease evaluated.

*Leaf spot*

## 15. ADDITIONAL DESCRIPTION

Describe all characteristics and conditions that cannot be adequately described in this form in Exhibit D.

**Additional Description of Voyager II (PST-1QG-27) Kentucky Bluegrass**

Voyager II (PST-1QG-27) Kentucky bluegrass is a late maturing variety that has shown the following characteristics.

1. Good turf quality ratings in NTEP (Table 3).
2. Good genetic color (Table 4).
3. Excellent resistance to powdery mildew (Table 5).
4. Good resistance to snow mold (Table 6).
5. Excellent resistance to rusts (Table 7).
6. Excellent resistance to brown patch (Table 8).

TABLE 3.

TURFGRASS QUALITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN AT TWENTY-SEVEN LOCATIONS (FULL SUN) IN THE U.S.  
2001 DATA

## TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	CO1	IA1	IL2	IN1	KS2	KY1	MA1	MD1	ME1	MIL1	MN1	M01	NC1	NE1	NJ1	NY1	OHI1	OK1	PA1	RI1	SD1	UT1	VA1	WA1	WA3	WI1		
99AN-53	5.9	7.9	5.0	5.2	5.1	4.7	6.5	4.5	5.9	7.0	3.1	4.7	4.7	4.2	4.7	5.6	3.2	4.8	6.3	4.9	3.5	5.9	3.0	5.8	3.2	4.0		
A96-427	5.9	8.0	4.8	5.8	6.1	4.8	6.9	5.8	6.6	7.0	4.1	5.5	5.9	5.1	5.6	5.7	5.4	5.2	6.0	7.0	6.2	5.1	5.5	4.5	6.3	4.6	5.6	
A96-451	5.9	7.1	6.7	5.1	6.1	5.1	7.0	4.8	7.0	7.1	4.2	5.4	5.8	5.4	5.0	5.1	5.6	5.5	5.5	6.5	5.4	6.5	3.7	5.6	4.3	5.9		
A96-739	5.9	7.5	6.1	5.4	6.3	7.0	5.5	7.4	6.9	4.5	5.2	5.6	5.1	5.0	5.2	5.5	6.3	5.9	6.2	4.5	6.3	3.7	5.6	4.2	4.2	5.4		
A96-742	5.7	6.8	5.3	5.5	5.4	5.6	6.6	4.7	6.2	7.0	3.8	4.6	4.0	5.1	4.2	4.3	5.5	6.1	5.9	5.1	5.6	3.8	5.6	4.1	4.1	4.5		
A97-1330	5.9	7.5	6.3	5.0	6.5	6.1	7.0	5.9	6.9	7.0	4.3	6.1	5.5	5.7	5.3	5.6	5.5	5.3	6.4	7.3	6.6	5.6	4.2	6.3	4.5	6.0		
A97-1409	5.9	8.1	5.6	4.5	6.1	5.3	6.9	4.7	6.9	7.0	4.3	5.2	5.7	5.0	5.6	6.0	4.8	6.4	5.9	6.4	5.9	4.4	5.8	4.1	6.6	4.8	5.3	
A97-1432	6.0	8.3	6.9	4.9	4.7	6.5	7.2	6.5	7.5	7.0	4.2	5.8	6.2	6.3	5.9	6.0	5.5	5.1	6.5	7.0	5.2	4.8	6.0	4.0	6.9	5.2	6.5	
A97-1715	6.0	7.8	6.7	6.0	6.5	6.4	6.9	5.5	6.6	7.0	4.0	6.2	6.7	6.3	5.9	5.6	5.9	6.8	6.8	7.0	6.2	4.5	6.2	4.8	6.9	4.2	5.6	
A97-857	5.8	7.5	4.8	5.1	5.8	5.2	6.1	5.7	6.2	6.8	3.9	5.1	5.6	5.8	5.0	4.2	5.5	4.9	5.6	6.1	5.7	4.8	5.9	3.4	5.7	4.2	5.9	
A98-1028	6.0	7.4	6.5	5.3	5.6	4.9	6.9	5.0	7.0	7.1	4.2	5.6	4.9	5.4	5.6	5.1	5.3	5.8	5.6	6.5	6.0	4.7	5.6	3.9	5.9	4.0	5.7	
A98-139	6.0	7.8	6.1	5.5	6.2	5.6	5.4	6.6	5.7	6.8	3.8	4.3	5.1	4.9	4.7	5.1	5.5	3.6	5.8	5.8	5.0	4.3	6.5	3.8	5.8	4.2	4.3	
A98-183	6.1	7.9	6.4	5.0	6.0	4.4	6.9	5.3	7.0	7.0	3.8	5.7	6.0	4.4	5.4	5.3	5.1	4.9	6.3	6.8	5.4	4.0	6.3	3.7	6.4	4.2	5.1	
A98-365	6.1	7.8	6.6	5.4	6.0	5.9	6.9	5.7	6.9	7.1	4.0	5.3	5.3	6.1	5.2	5.0	5.5	5.2	6.2	6.5	6.9	4.4	6.5	4.4	6.2	4.3	5.6	
A98-407	6.0	7.5	5.0	4.8	5.4	3.9	7.0	5.0	6.3	6.6	4.0	4.8	4.9	5.6	4.1	4.4	5.6	3.8	5.7	6.8	5.4	4.7	6.1	3.4	5.4	4.1	5.8	
A98-881	6.0	7.9	5.0	5.5	5.7	5.1	6.5	5.9	6.4	7.0	4.5	5.2	4.7	5.5	5.8	5.3	5.5	5.3	5.1	6.2	6.3	5.4	6.1	3.9	6.3	4.6	5.3	
ABBEY	6.0	7.7	5.5	5.1	6.2	6.3	7.1	5.9	7.1	6.8	4.1	4.9	4.7	5.5	5.5	5.9	5.9	5.4	5.6	5.8	6.3	4.8	6.0	3.8	6.3	4.2	4.7	
ALLURE	6.0	8.1	5.8	5.1	6.0	5.3	6.8	6.6	6.7	6.9	4.5	5.5	3.9	5.3	5.2	5.6	5.6	5.3	5.9	6.3	7.1	5.5	6.1	4.0	6.2	4.5	5.1	
ALPINE	6.0	7.4	5.1	5.2	6.0	5.9	6.9	5.8	6.8	7.4	4.7	4.9	5.6	5.6	6.0	5.8	5.3	4.8	6.2	7.3	6.6	5.2	5.4	4.1	6.4	4.2	6.7	
APOLLO	7.2	6.6	5.0	5.5	7.3	7.3	7.3	6.5	7.0	7.0	4.3	5.9	5.2	5.5	5.8	5.2	5.2	6.4	6.6	7.3	7.0	5.2	6.0	3.9	7.2	4.8	6.0	
ARCADIA	6.8	8.1	7.5	5.3	4.5	6.9	7.0	5.9	7.1	7.1	4.1	6.5	6.2	6.8	6.6	6.2	5.6	5.4	6.3	8.0	5.7	5.0	6.3	3.6	7.2	4.8	6.4	
ARROW (A97-1567)	5.9	7.9	7.3	5.1	4.9	6.1	7.0	5.5	6.8	7.2	4.3	6.3	5.9	5.6	5.4	5.3	5.7	5.1	6.4	7.1	5.8	4.7	5.9	4.2	6.3	4.8	5.8	
ASCOT	5.9	8.3	4.2	5.3	5.9	5.8	6.8	6.0	6.9	6.9	3.9	5.1	4.6	6.1	6.7	6.8	6.0	5.7	4.9	6.2	7.5	5.5	4.6	5.7	3.7	6.1	3.9	6.3
B3-171	5.9	7.8	6.9	5.5	6.0	6.2	7.1	6.2	7.2	7.3	4.2	6.1	6.1	6.7	6.8	6.0	5.7	4.4	6.6	7.9	7.6	5.3	5.4	4.0	7.1	4.5	6.3	
B3-185	5.9	7.7	6.8	4.6	4.8	5.8	6.3	7.2	5.9	7.2	3.4	5.2	5.8	5.8	5.8	5.4	5.2	4.6	6.5	7.5	6.5	5.0	6.5	4.2	5.7	5.0	6.2	
B4-128A	6.0	6.9	5.0	5.5	5.6	5.3	6.5	6.0	6.9	6.4	3.9	5.6	4.2	5.2	4.8	4.9	5.5	4.6	6.2	6.9	6.5	4.8	6.1	4.3	5.8	4.6	6.5	
B5-144	5.9	7.8	6.3	5.2	5.5	5.1	6.6	6.6	6.7	6.8	3.6	5.6	4.8	5.1	4.7	4.7	4.8	5.1	5.4	6.1	6.7	5.0	5.7	4.2	6.3	4.5	5.4	
B5-43	5.9	7.5	5.9	5.2	5.5	5.1	6.7	5.5	6.4	6.4	3.9	5.4	4.5	5.8	5.3	5.3	5.2	4.9	5.9	6.3	6.3	5.4	5.6	4.2	6.5	4.5	5.3	
B5-45	6.0	7.3	5.5	5.1	5.8	5.3	6.5	6.0	7.4	6.8	3.9	5.4	4.5	5.8	5.3	5.3	5.2	4.9	5.9	6.3	6.3	5.4	5.8	4.2	6.0	4.3	5.4	
BAR PP 00-6001	6.0	7.8	6.7	5.4	4.7	5.0	6.8	5.2	6.6	6.8	3.5	5.6	5.6	5.4	5.6	5.3	5.3	4.2	6.4	6.9	6.0	5.2	5.6	3.9	6.4	3.8	6.3	
BAR PP 0471	6.0	7.3	7.0	4.8	5.4	6.0	7.0	5.9	6.9	6.9	4.0	5.7	5.4	5.8	5.0	4.7	5.6	5.1	6.4	6.9	6.3	5.1	6.1	4.1	6.3	4.4	5.6	
BAR PP 0566	6.0	8.3	6.3	4.8	6.0	5.4	6.9	5.1	6.9	6.4	4.4	5.9	6.1	5.2	5.0	4.7	5.6	6.0	6.3	6.2	6.8	6.1	4.0	6.6	3.7	5.8	4.3	5.0
BAR PP 0573	5.9	8.1	6.6	4.7	6.0	5.7	6.9	5.1	6.7	6.8	4.1	6.1	5.7	5.2	5.0	5.5	5.8	4.8	6.4	6.6	6.5	4.0	6.1	4.3	6.4	4.0	5.6	
BARIRIS	5.9	7.5	6.7	5.6	5.5	6.0	7.5	6.7	7.1	6.8	3.8	5.6	5.6	6.3	6.3	5.2	5.3	5.7	6.4	6.1	6.3	4.7	6.0	3.9	6.6	4.8	5.8	
BARITONE	6.0	7.2	5.6	5.7	6.1	5.0	6.9	5.9	6.6	6.9	3.5	5.1	4.8	5.3	4.1	5.0	5.2	4.5	6.6	6.1	6.0	3.8	5.3	4.0	6.0	4.4	5.4	
BARON	5.9	7.5	4.6	5.8	5.5	4.8	7.0	5.5	5.8	6.9	4.7	5.4	5.1	5.8	5.4	5.7	5.4	5.1	5.7	6.5	6.7	4.7	5.8	4.0	6.7	4.4	5.6	
BARONETTE (BA 81-058)	6.0	7.3	7.0	5.0	6.2	6.0	6.8	6.2	7.2	5.7	4.3	5.6	7.4	6.2	7.1	7.1	4.1	6.4	6.7	6.5	6.1	6.1	4.5	6.3	4.3	5.0	4.3	5.0
BARONIE	6.0	7.3	6.7	6.2	6.0	6.2	7.2	5.7	6.3	6.9	3.6	5.4	4.9	5.6	4.1	4.8	4.9	6.2	5.9	6.1	6.9	5.3	5.0	4.9	6.7	4.4	5.8	
BARRISTER (J-1655)	6.3	7.9	7.1	5.6	5.9	5.7	7.3	6.4	6.8	7.1	4.1	6.8	5.4	5.9	6.5	6.3	5.5	5.0	6.9	7.9	6.6	4.4	6.3	4.7	7.2	3.9	6.8	
BARSTITIA	6.0	7.5	5.5	5.3	5.8	4.3	7.0	6.3	6.1	6.9	4.0	5.3	4.5	5.2	5.3	5.4	5.4	5.1	5.7	6.5	6.7	4.7	5.2	3.4	6.6	4.6	5.8	
BARZAN	5.4	7.6	4.5	5.2	4.7	3.7	6.4	4.2	6.1	6.7	3.4	4.7	4.7	3.4	4.0	4.5	4.5	4.1	6.5	5.9	6.0	3.8	5.9	3.3	6.7	4.1	5.8	
BEDAZZLED	6.1	7.9	6.0	5.0	5.3	5.6	7.4	6.2	7.1	7.1	4.3	6.4	6.7	6.7	6.5	6.0	5.0	5.9	7.1	6.7	5.7	6.1	4.6	6.7	4.2	6.7	4.0	5.6
BEYOND (J-1880)	6.1	7.8	7.0	4.8	5.0	5.4	7.3	6.3	7.4	7.0	4.5	6.5	5.8	6.4	6.1	5.0	4.8	6.8	7.5	5.9	4.7	6.1	4.1	6.2	4.3	6.5	4.0	5.3
BH 00-6002	5.9	7.0	5.7	5.5	6.3	6.0	6.9	5.0	6.7	7.1	3.7	4.8	4.4	5.0	4.9	5.5	5.2	4.2	5.6	6.2	5.3	3.6	3.9	5.5	4.5	3.7	5.7	
BH 00-6003	6.0	7.8	6.2	4.8	5.5	4.9	5.8	3.9	3.9	6.4	3.6	3.9	5.5	4.5	3.7	4.2	5.3	4.6	6.1	4.0	4.8	3.7	6.1	4.1	4.0	5.0	3.5	4.3

#200300251

TABLE 3. (CONT'D)

TURFGRASS QUALITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN AT TWENTY-SEVEN LOCATIONS (FULL SUN) IN THE U.S.  
2001 DATA

#200300251

## TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	CO1	IA1	IL2	IN1	KS2	KY1	MA1	MD1	ME1	MJ1	MN1	MO1	NC1	NE1	NJ1	NJ2	NY1	OH1	OK1	PA1	RI1	SD1	UT1	VA1	WA1	WA3	WI1
BLACKSBURG II (PST-1BMY)	6.0	8.1	7.5	5.8	5.6	6.0	6.8	5.0	6.6	7.1	4.1	5.7	5.6	4.9	5.1	4.9	5.5	4.9	6.0	6.4	6.1	4.8	6.2	4.6	6.3	4.1	4.9
BLACKSTONE	5.9	8.1	5.9	5.6	5.3	6.6	7.0	6.8	7.0	7.1	4.1	5.9	6.4	5.1	6.2	6.4	5.5	5.8	6.5	6.7	6.4	4.6	6.6	4.7	6.7	4.6	5.4
BLUE KNIGHT	5.9	6.8	3.5	4.9	4.4	4.0	7.0	5.1	6.2	7.3	4.2	5.1	4.7	5.8	5.7	5.2	5.4	3.9	4.9	6.3	6.4	4.1	5.9	3.1	6.3	4.0	5.7
BLUE RIDGE (A97-1449)	5.9	7.9	5.7	5.2	5.4	5.1	6.9	5.8	7.2	6.9	4.0	6.1	6.2	4.9	5.4	5.0	5.3	5.4	5.5	7.1	6.1	4.0	6.2	4.0	6.7	4.9	6.2
BLUESTONE (PST-731)	6.3	8.1	6.6	5.6	6.0	5.9	7.3	6.3	6.2	7.0	4.2	6.4	5.9	6.2	6.8	6.0	5.4	4.8	6.9	7.7	5.8	5.4	6.9	4.1	6.9	4.1	6.6
BODACIOUS	6.1	7.8	3.8	5.0	5.4	4.1	6.1	3.7	5.9	6.6	3.3	4.6	5.4	5.6	4.0	3.6	5.8	4.1	5.7	5.8	4.0	3.7	6.2	3.2	5.8	3.6	4.4
BOOMERANG	6.0	8.1	4.3	5.3	5.1	4.0	6.4	4.2	7.1	6.8	4.3	4.4	6.1	4.8	4.8	4.3	5.9	5.1	5.8	6.6	5.1	4.9	5.9	3.3	6.8	3.7	5.3
BORDEAUX	5.9	7.5	5.0	5.0	5.8	5.3	7.1	6.0	7.2	7.0	4.0	5.1	5.9	4.8	6.0	5.3	5.5	5.3	6.0	6.8	4.9	4.6	6.0	4.2	6.8	4.4	5.7
BOUTIQUE	5.9	7.8	6.0	4.8	5.7	4.5	7.1	5.1	6.4	7.1	4.8	5.6	5.9	5.8	6.4	5.4	5.5	5.8	6.0	7.0	4.5	3.9	6.7	4.0	6.2	4.5	5.3
BRILLIANT	6.1	7.4	6.8	4.5	5.7	6.8	7.4	6.5	6.9	6.9	4.0	6.4	5.3	6.2	5.6	5.5	5.8	4.5	6.3	7.1	6.5	5.6	6.1	4.7	6.1	4.6	6.4
BROOKLAWN	6.0	7.8	5.9	5.5	5.8	4.8	6.8	5.4	6.7	6.8	4.4	5.2	4.9	5.3	5.8	4.7	5.4	5.2	5.9	6.7	6.1	5.0	5.3	3.7	5.8	4.5	5.7
CABERNET	6.0	7.9	6.5	5.7	5.9	5.9	6.6	5.3	6.1	7.0	4.5	4.8	5.9	5.4	6.3	5.9	5.3	4.5	6.1	6.5	5.8	4.7	6.1	4.3	5.9	4.5	4.8
CHAMPAGNE	5.9	7.8	5.6	5.4	6.3	5.6	6.7	5.6	6.5	7.0	4.4	5.4	5.8	5.1	4.7	4.8	5.8	5.7	5.5	6.3	5.9	4.7	6.0	4.1	5.4	4.7	5.1
CHAMPLAIN (A98-1275)	5.9	7.2	6.8	5.5	5.7	5.4	7.0	5.7	6.8	6.9	4.1	5.9	5.5	5.4	5.4	5.5	4.9	5.2	6.4	6.7	6.8	5.4	5.7	4.5	5.7	4.9	6.3
CHATEAU	6.0	7.4	5.9	5.6	5.8	5.3	6.7	6.3	6.4	6.7	4.1	5.5	4.2	5.4	4.9	5.3	5.4	4.2	6.0	6.3	6.8	5.1	6.5	4.1	5.9	4.5	5.8
CHELSEA	6.0	7.4	4.6	4.7	5.3	4.1	6.9	6.0	6.9	7.2	4.4	4.9	4.8	4.5	4.3	5.3	5.2	4.6	6.2	7.5	7.2	5.0	5.8	3.9	6.3	4.4	6.4
CHICAGO II	6.1	7.4	6.8	5.3	5.6	5.2	6.9	6.8	6.8	6.7	3.9	5.9	6.0	6.1	5.6	4.9	5.5	4.8	6.5	7.1	5.4	4.8	5.9	3.7	7.1	4.2	6.0
COVENTRY	5.9	7.6	5.3	5.8	5.8	5.9	6.9	6.3	6.7	7.1	4.3	5.7	4.9	5.6	5.4	5.6	5.5	5.3	5.8	6.5	6.9	5.4	5.7	4.7	6.0	4.6	6.4
CVB-20631	5.5	6.4	3.5	4.7	4.8	3.8	6.7	4.8	5.3	6.8	3.0	4.2	4.6	4.7	3.9	5.3	5.2	3.2	5.9	7.0	5.1	3.9	5.8	3.3	5.8	3.7	6.0
DLF 76-9032	5.8	7.1	5.7	4.3	5.5	4.8	7.1	6.0	6.3	7.1	4.0	5.2	5.2	5.2	4.9	4.6	5.9	5.9	6.5	6.3	5.0	4.3	5.8	3.7	5.9	3.7	6.0
DLF 76-9034	5.4	6.7	5.8	4.7	5.8	4.2	6.6	4.1	6.1	6.6	4.7	4.6	4.3	4.1	3.6	3.9	5.7	5.3	6.0	5.4	5.6	4.7	5.9	4.0	5.1	3.8	3.7
DLF 76-9036	5.6	7.3	6.1	5.5	5.5	5.7	6.8	5.5	6.4	7.1	4.4	4.9	5.0	5.2	5.6	6.0	5.3	5.0	5.8	6.3	6.5	5.0	6.0	4.2	6.1	4.2	5.6
DLF 76-9037	5.8	7.2	6.9	4.9	6.0	7.0	7.0	6.0	6.4	7.3	4.2	6.2	5.7	5.9	5.3	5.3	5.4	5.1	6.2	7.2	7.0	4.8	6.3	3.9	6.1	4.2	5.8
EAGLETON	5.8	7.4	6.8	5.9	5.8	6.1	7.3	5.7	6.2	7.2	4.7	5.6	4.8	5.5	6.0	5.7	5.4	5.6	5.9	5.7	6.5	5.0	5.7	4.0	6.0	3.9	5.0
ENVICTA	5.7	7.5	5.5	5.5	5.5	5.7	6.9	5.4	6.2	6.8	4.6	5.2	4.2	4.5	5.3	5.3	5.5	5.0	6.0	5.3	6.0	4.6	5.6	4.2	6.0	4.1	4.3
EVEREST	5.9	7.8	5.1	5.0	5.6	4.5	7.0	5.7	6.8	7.1	3.9	6.4	5.7	5.6	5.7	5.5	5.5	4.2	6.7	8.0	6.2	5.3	6.5	4.1	6.9	4.3	7.0
EVERGLADE	6.2	7.6	6.5	4.8	6.5	4.5	7.3	5.4	6.7	6.9	4.0	6.4	6.2	6.3	6.0	5.7	5.4	4.2	6.6	7.7	6.8	4.9	6.6	4.6	7.0	4.8	6.2
EXCURSION (J-1648)	6.0	7.7	7.3	5.5	6.1	4.9	7.1	6.0	6.1	7.3	4.1	6.2	5.7	6.4	6.0	5.6	5.6	5.5	6.3	6.8	6.0	4.9	5.4	4.0	7.0	4.4	7.0
FAIRFAX	6.0	7.6	6.4	5.6	5.4	6.5	6.6	6.7	6.6	6.9	4.5	5.3	4.0	5.9	5.2	5.0	5.6	6.0	6.1	6.3	6.6	5.6	5.7	3.9	6.2	4.4	4.7
FREEDOM II	6.7	7.8	5.9	5.5	5.9	6.1	7.1	6.0	7.4	7.2	3.6	5.9	7.3	6.3	5.4	6.1	5.6	5.1	6.5	7.6	6.0	5.0	6.8	3.4	6.9	4.4	6.2
GO-91M9	5.5	6.8	3.6	5.5	5.1	5.2	5.1	4.8	5.1	7.2	3.6	4.6	4.1	4.1	3.8	3.7	5.4	5.2	4.2	4.0	4.9	4.3	5.8	3.3	5.7	2.9	3.0
GOLDRUSH	5.7	7.4	5.3	5.1	6.0	6.3	7.1	6.0	6.8	7.0	4.4	5.5	4.4	5.1	5.5	5.5	5.3	5.2	6.0	6.0	6.7	5.5	6.0	4.3	6.3	4.3	5.1
GOLDSTAR (A98-296)	6.0	7.7	6.4	5.3	5.9	5.7	6.8	5.4	6.7	6.9	4.5	5.2	5.8	5.3	5.8	5.7	5.1	4.7	6.0	6.8	6.2	4.8	6.7	3.5	6.0	4.6	5.4
H92-203	5.9	7.2	6.6	4.9	5.9	5.9	7.2	5.5	6.6	7.0	4.4	5.6	5.5	5.5	5.3	5.4	5.4	5.6	6.2	6.7	6.7	5.3	6.3	4.1	6.2	4.3	5.9
H92-558	6.0	8.2	6.5	5.8	5.6	6.0	6.9	6.0	7.2	6.8	4.3	5.3	5.1	4.9	5.6	4.8	5.5	4.2	6.6	6.7	5.3	4.7	5.8	3.7	6.6	4.5	5.7
H94-293	6.0	7.8	5.5	5.8	5.6	5.7	7.1	6.0	6.7	7.1	4.0	5.9	5.1	6.2	5.9	5.2	5.4	5.5	6.5	7.4	6.2	4.7	5.7	3.7	6.3	4.9	6.3
HALLMARK	5.9	7.8	5.6	5.0	6.1	5.3	6.9	5.5	6.8	7.3	4.5	5.2	5.2	5.3	6.2	5.8	5.5	6.2	6.3	6.8	6.3	4.4	6.3	3.7	6.2	4.5	6.4
HV 140	6.0	7.7	5.3	5.9	5.5	5.6	6.5	5.8	6.6	7.0	4.5	5.0	4.7	5.3	6.0	6.0	5.9	5.8	6.5	6.3	6.0	4.6	6.3	3.9	5.8	3.8	5.9
HV 238	5.9	7.6	7.2	5.8	5.4	5.4	6.9	5.7	6.6	7.0	4.3	5.9	5.5	5.2	5.8	5.3	5.7	5.3	6.2	7.0	6.4	5.5	5.7	3.9	6.3	4.3	5.6
IB7-308	5.9	7.3	6.4	4.9	5.5	5.1	7.0	5.3	7.3	6.8	3.9	5.2	6.2	5.2	6.3	5.4	5.8	5.4	6.1	7.5	5.2	4.9	5.8	4.3	6.2	4.4	6.4
IMPACT	6.6	8.0	5.8	5.0	6.2	6.2	7.2	6.0	6.8	7.0	4.3	6.1	6.5	6.9	7.0	6.3	5.7	5.6	6.7	8.0	6.2	5.5	6.8	3.8	7.3	4.4	6.6
J-1368	6.1	8.3	7.0	5.3	5.0	5.3	7.0	6.1	7.2	7.0	4.3	6.2	5.9	6.4	6.4	6.1	5.4	4.9	6.7	8.2	6.3	5.0	5.9	3.7	6.7	4.3	7.2
J-1420	6.2	7.8	7.1	5.8	5.9	5.9	7.3	6.1	6.7	7.0	4.4	6.3	6.1	6.2	6.4	5.8	5.7	5.1	6.7	8.1	6.9	5.2	5.9	4.3	6.6	4.8	6.1
J-1513	6.4	7.9	6.2	5.4	5.5	6.7	7.2	5.8	7.3	7.0	4.4	6.4	6.5	6.6	6.3	5.8	5.5	4.9	6.9	8.1	7.1	5.0	6.1	4.2	7.1	4.7	6.5
J-1515	6.4	7.7	6.8	5.6	5.7	6.1	7.2	6.2	7.5	7.0	4.3	6.4	6.4	6.3	6.4	5.8	5.6	6.0	6.8	7.6	7.3	5.0	6.3	4.2	6.8	4.5	6.4
J-1838	6.4	8.1	5.5	5.4	5.1	4.9	7.3	6.4	6.9	7.0	4.4	6.7	5.9	6.3	6.9	6.3	5.5	5.0	6.9	7.3	6.0						

TABLE 3. (CONT'D)

TURFGRASS QUALITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
 GROWN AT TWENTY-SEVEN LOCATIONS (FULL SUN) IN THE U.S.  
 2001 DATA

## TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	C01	IA1	IL2	IN1	KS2	KY1	MA1	MD1	ME1	M11	MN1	M01	NC1	NE1	NJ1	NJ2	NY1	OH1	OK1	PA1	RI1	SD1	UT1	VA1	WA1	WA3	WI1
JEFFERSON	6.1	7.4	6.4	5.7	6.1	5.9	6.8	5.8	5.9	7.4	3.9	5.6	5.2	5.7	5.0	5.5	5.6	5.7	6.1	6.1	6.2	5.0	6.0	4.5	6.1	4.4	5.0
JEWEL	6.0	7.5	5.5	5.4	6.0	5.0	6.0	3.8	5.8	7.0	4.4	4.9	4.5	4.8	4.2	4.0	5.5	5.1	6.0	4.1	4.6	4.6	6.1	3.6	5.6	2.6	4.0
JULIA	6.0	7.3	5.8	6.0	5.7	5.3	7.0	5.8	6.9	7.3	4.1	4.9	4.6	5.2	5.2	5.1	5.5	5.3	6.2	6.0	5.5	4.4	5.4	3.3	6.3	4.7	5.4
JULIUS	6.0	6.6	5.3	5.0	5.1	4.6	7.3	6.4	6.9	7.1	4.2	4.7	4.7	5.7	4.7	4.5	5.8	4.7	6.3	7.2	5.8	4.4	5.8	3.5	5.1	4.7	6.1
KENBLUE	5.0	7.3	4.4	5.4	5.7	5.3	5.9	4.3	6.2	7.3	4.4	4.4	3.2	4.6	4.4	3.9	5.3	6.0	5.5	4.5	6.2	4.2	5.6	3.7	5.1	3.1	3.2
LAKESHORE (A93-200)	6.0	7.8	5.8	5.6	6.0	4.7	6.9	5.0	6.0	6.8	3.4	5.9	4.9	5.6	5.4	5.4	5.2	5.9	6.0	6.3	6.4	4.9	6.1	3.9	6.4	4.5	5.6
LANGARA	6.0	8.1	7.2	4.8	6.8	6.6	7.4	5.7	7.0	7.2	4.6	5.2	5.3	6.1	6.3	6.4	5.5	5.4	6.8	7.6	6.7	5.0	6.3	4.0	6.8	4.9	5.3
LIBERATOR	6.3	8.1	6.3	4.8	5.9	6.2	7.0	5.9	6.4	7.0	3.9	6.2	6.5	6.2	6.6	6.0	5.4	5.4	6.7	7.1	5.7	4.7	6.1	4.1	6.7	3.7	6.0
LILY	6.0	7.3	6.0	4.8	5.4	6.3	6.5	6.5	6.5	6.8	4.4	5.1	4.0	6.1	5.6	4.9	5.8	5.1	5.5	5.7	7.0	5.7	5.5	3.7	6.4	4.2	5.2
LIMERICK	6.0	7.3	5.1	5.6	5.5	5.0	6.7	5.2	6.3	7.1	4.4	5.2	4.3	5.3	5.2	5.6	6.1	4.2	6.0	6.5	6.5	4.8	6.3	5.2	6.6	3.7	4.3
LIMOUSINE	6.2	7.4	5.0	5.3	5.4	5.6	7.0	6.0	6.4	7.0	5.0	4.7	5.3	5.3	4.7	5.1	5.5	5.7	5.7	6.5	5.9	5.2	6.1	4.0	5.7	4.8	6.1
MALLARD (A97-1439)	6.0	7.9	7.3	5.4	6.2	6.1	7.1	5.6	6.9	6.9	4.1	6.0	6.0	5.3	5.8	5.6	5.0	6.1	6.1	7.1	6.6	5.0	6.1	4.1	6.9	4.8	5.7
MARQUIS	6.0	7.6	5.3	5.7	5.5	6.4	6.9	5.8	6.4	6.9	3.4	5.1	4.8	4.8	5.1	5.3	5.7	5.2	5.8	6.1	5.5	5.0	6.0	4.3	6.2	4.3	5.3
MIDNIGHT	6.4	8.5	6.5	5.8	5.7	6.4	7.3	6.1	6.9	7.1	4.2	5.8	6.8	6.4	6.6	6.3	5.4	4.9	6.3	7.3	6.1	4.9	6.1	4.1	7.2	4.4	6.4
MIDNIGHT II (A98-739)	6.4	8.4	7.5	5.8	5.8	6.3	7.3	6.6	7.3	6.9	4.8	5.8	6.6	6.7	6.5	6.3	5.8	4.4	6.8	8.3	6.7	5.2	6.1	4.0	7.3	4.0	6.7
MISTY	6.1	7.7	5.0	5.4	5.8	5.5	7.0	5.4	6.8	6.7	4.5	5.1	5.1	4.9	5.2	5.7	5.4	3.9	5.6	6.2	6.5	4.9	5.7	3.8	6.2	4.5	5.4
MONTE CARLO (A96-402)	6.0	7.9	5.0	4.9	6.0	4.5	6.7	5.7	7.0	7.1	4.6	5.1	5.9	5.3	6.1	5.3	5.8	5.0	5.8	6.6	6.5	4.8	6.5	3.9	6.4	4.3	5.5
MOON SHADOW (PICK 113-3)	6.3	7.9	6.6	5.9	6.5	7.2	6.9	6.5	7.3	7.1	4.6	6.2	6.4	5.9	5.8	6.0	5.5	6.2	6.3	7.4	6.4	5.3	7.0	4.4	7.0	4.3	6.1
MOONLIGHT	6.4	7.6	5.4	4.5	5.0	7.0	7.0	5.7	7.2	6.9	4.1	6.8	5.9	5.8	7.1	6.0	5.5	5.1	6.4	7.6	6.3	4.4	6.3	4.6	7.7	4.2	7.1
NA-K991	6.2	7.2	4.6	4.8	5.2	4.9	6.6	5.1	6.2	6.8	4.3	5.3	5.7	5.4	4.8	4.8	5.5	4.2	6.2	6.4	4.0	4.3	6.9	3.7	6.3	4.0	5.5
NA-K992	6.0	6.7	5.1	5.0	4.8	4.5	5.9	4.2	6.1	7.1	3.8	4.3	4.7	3.7	3.7	3.7	5.5	4.8	5.9	5.5	5.3	3.7	6.1	3.7	6.4	3.1	4.4
NORTH STAR	6.5	7.2	4.4	5.2	5.0	5.1	6.8	6.4	5.9	7.0	3.9	5.0	5.0	5.7	5.3	5.6	5.5	4.3	6.7	6.5	5.7	4.2	5.4	4.1	6.1	4.4	6.5
NUGLADE	6.5	8.0	6.0	5.5	5.1	5.7	7.1	6.2	6.6	7.3	4.2	6.2	5.7	6.1	6.2	5.8	5.4	5.0	6.7	6.9	5.5	5.2	5.9	4.4	7.0	4.9	6.2
ODYSSEY	6.6	7.8	7.5	5.3	5.4	5.8	7.2	6.1	6.2	7.0	4.4	6.0	6.0	6.5	6.5	6.0	5.5	5.0	6.6	7.7	7.0	4.9	6.1	3.8	6.7	4.4	6.8
PICK 417	6.2	7.7	6.0	5.1	6.1	6.2	6.9	6.4	6.9	7.0	4.4	5.3	5.9	5.7	5.0	5.7	5.1	4.8	6.1	6.5	5.9	4.7	6.1	3.7	6.7	4.8	5.9
PICK 453	6.1	7.8	6.1	5.1	5.4	6.3	7.0	6.3	6.8	7.1	4.3	5.4	4.8	5.3	5.5	5.1	5.7	4.8	6.1	6.7	6.0	5.0	6.6	3.6	6.2	4.5	5.7
PICK-232	6.0	7.7	7.1	4.9	4.7	7.0	6.9	5.8	7.1	7.2	4.5	6.1	5.8	5.1	5.5	5.2	5.4	5.1	6.3	6.9	6.5	5.1	6.1	4.3	6.4	4.1	5.6
PP H 6366	6.1	6.8	4.4	5.3	5.0	5.5	7.3	6.2	5.9	7.1	3.9	4.5	4.9	6.1	5.0	5.2	5.7	5.5	5.9	7.4	6.5	4.8	6.3	3.9	5.2	4.5	6.0
PP H 6370	6.0	7.4	5.9	5.9	5.7	5.9	6.5	6.0	6.4	7.1	4.3	4.9	5.3	5.8	5.0	4.9	5.4	6.3	6.1	6.6	6.6	4.8	6.4	4.0	6.0	4.6	5.9
PP H 7832	5.8	7.6	4.0	5.2	5.5	3.9	6.9	5.8	6.1	6.9	4.0	4.9	5.8	5.9	5.3	4.8	5.3	5.2	6.2	6.4	5.6	4.4	5.8	3.6	6.9	3.9	5.7
PP H 7907	6.0	7.6	4.0	5.2	5.6	4.0	6.7	4.6	6.6	7.0	4.6	3.9	5.5	5.1	4.8	4.7	5.4	5.9	5.7	6.5	5.9	4.1	5.5	3.3	6.2	3.8	5.5
PP H 7929	6.0	7.2	3.4	5.2	4.8	3.5	6.4	4.0	6.1	7.0	3.6	4.3	5.0	5.5	3.8	4.9	5.0	4.9	5.6	6.5	5.2	4.3	5.8	3.6	5.8	3.8	5.6
PRINCETON 105	.	7.6	6.3	5.5	5.5	5.9	7.2	5.8	6.5	7.0	4.4	5.3	5.6	6.6	5.5	6.0	5.5	4.6	6.9	6.5	7.1	5.7	5.7	4.5	6.9	4.5	6.1
PRO SEEDS - 453	.	7.6	6.0	5.5	6.4	6.1	7.0	5.9	6.3	7.0	4.1	5.2	5.8	6.2	5.6	5.9	5.7	5.2	6.2	7.3	5.8	4.9	6.4	4.4	6.3	4.3	6.5
PST-108-79	6.0	7.7	5.2	5.3	5.8	4.3	6.8	5.0	6.9	7.2	3.6	5.1	4.9	5.4	4.9	6.3	5.4	4.3	6.4	7.2	6.2	4.7	5.9	3.9	6.0	3.7	5.7
PST-161	6.0	8.0	6.8	5.4	5.5	5.4	6.9	5.4	6.8	7.0	4.3	4.9	6.2	5.4	6.0	5.8	5.8	4.9	6.2	6.2	6.4	4.3	6.1	4.1	6.6	4.6	4.7
PST-1701	6.0	7.7	7.3	6.3	5.7	6.3	7.0	5.7	7.1	7.1	4.9	5.5	4.9	5.5	5.8	6.6	5.4	6.0	6.1	6.2	7.0	5.4	6.1	5.0	6.8	4.7	5.2
PST-1804	5.9	7.6	6.8	5.0	5.3	5.4	6.7	5.6	6.6	7.3	4.5	5.7	4.7	5.0	5.4	5.0	5.8	5.9	5.9	6.6	6.0	5.3	5.7	4.1	6.1	4.0	5.4
PST-1QG-27	6.1	7.5	6.0	5.0	5.6	5.8	7.0	5.9	6.6	7.1	3.6	6.3	5.4	5.9	5.5	5.4	5.3	5.3	6.4	7.1	6.6	5.0	5.9	4.5	6.2	4.9	6.0
PST-222	6.0	7.4	5.3	5.0	5.4	5.5	7.1	5.7	6.9	7.1	3.9	5.5	5.6	5.9	5.1	5.5	5.5	5.5	5.7	6.6	5.8	5.0	6.1	4.1	6.9	4.6	5.8
PST-604	6.1	7.6	5.7	5.1	5.1	4.6	6.5	5.0	6.3	6.5	3.5	4.9	6.1	5.3	4.7	4.7	5.4	4.6	5.6	6.3	6.2	4.0	6.6	4.2	6.4	3.7	5.7
PST-B3-170	6.0	7.4	5.5	5.5	5.8	5.6	7.1	5.4	7.4	7.1	4.0	5.6	5.4	5.7	5.4	5.5	5.3	5.5	6.2	5.7	5.7	4.0	5.9	3.9	6.6	4.5	6.6
PST-B4-246	6.2	7.4	6.3	4.8	5.5	5.5	7.1	5.1	7.1	7.1	4.3	4.9	4.9	5.7	5.2	5.1	5.5	4.7	6.0	6.5	4.8	4.0	5.8	3.5	6.0	4.6	6.4
PST-B5-125	6.1	7.8	6.5	5.2	5.7	6.4	6.9	5.3	6.9	7.1	4.2	5.1	5.7	5.6	5.5	5.8	5.3	5.4	6.0	7.1	6.0	4.3	6.6	3.9	6.3	3.3	6.3
PST-B5-89	6.1	7.7	5.6	4.9	6.3	6.4	6.9	6.0	6.9	6.8	3.6	5.1	6.3	5.5	6.0	4.8	5.4	5.0	6.5	7.9	6.8	4.0	6.8	4.1	6.3	4.4	6.3
PST-H5-35	6.1	7.5	5.5	4.8	5.1	4.4	6.6	4.7	6.5	6.8	3.6	5.9	5.8	5.2	5.2	5.0	5.5	5.0	5.9	7.1	5.0	4.6					

TABLE 3. (CONT'D)

TURFGRASS QUALITY RATINGS OF KENTUCKY BLUEGRASS CULTIVARS  
GROWN AT TWENTY-SEVEN LOCATIONS (FULL SUN) IN THE U.S.  
2001 DATA

#200300251

## TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	C01	IA1	IL2	IN1	KS2	KY1	MA1	MD1	ME1	MJ1	MN1	M01	NC1	NE1	NJ1	NJ2	NY1	OH1	OK1	PA1	RI1	SD1	UT1	VA1	WA1	WA3	WI1
RAVEN	6.1	7.4	6.2	5.7	5.7	5.7	6.7	6.2	6.6	6.6	4.0	5.6	4.1	5.3	5.5	5.6	5.5	5.7	5.7	5.8	6.1	5.1	5.7	4.7	6.3	4.0	4.6
RITA	6.0	8.1	5.7	5.3	5.7	6.4	6.7	5.3	6.9	7.0	4.9	5.4	5.8	5.4	5.8	5.5	5.5	5.5	6.4	6.2	6.6	4.8	6.5	4.6	6.9	4.4	5.5
ROYALE (A97-1336)	6.1	7.4	5.0	5.0	5.8	5.0	6.8	5.0	6.9	7.1	3.4	5.0	5.7	6.3	6.6	6.2	5.9	5.4	5.8	7.7	6.3	5.2	6.4	3.9	6.2	4.9	6.3
ROYCE (A98-304)	6.0	7.3	6.9	5.4	6.0	6.1	7.2	6.1	6.9	7.0	3.9	6.2	5.0	6.1	6.1	5.5	5.3	5.8	6.4	7.7	6.9	5.0	5.6	4.4	5.8	4.8	5.6
RUGBY II	6.6	8.2	5.7	5.5	5.6	5.5	7.5	6.1	6.8	6.9	4.1	6.1	5.5	6.5	6.3	5.9	5.6	5.5	6.4	7.1	6.2	4.8	5.3	3.6	6.9	4.2	5.9
SERENE	6.2	7.8	6.0	5.5	5.6	5.9	7.0	6.6	6.9	7.2	4.8	5.9	4.9	5.9	5.8	5.5	5.4	5.7	5.7	6.6	6.7	4.9	6.0	3.8	5.8	5.0	5.8
SHAMROCK	6.0	7.7	5.1	5.3	5.8	5.6	6.6	4.9	6.6	6.8	4.6	5.6	4.8	5.5	5.9	4.8	5.6	5.5	5.6	6.3	6.2	5.0	5.2	3.7	6.7	5.1	5.3
SHOWCASE	6.0	8.2	5.9	5.2	5.2	5.6	7.2	5.2	6.6	7.0	3.7	5.7	6.1	5.9	5.2	5.2	5.5	5.1	6.1	7.3	6.7	5.1	5.9	3.8	5.8	4.0	5.9
SI A96-386	6.0	8.0	5.9	5.3	5.9	4.8	7.0	5.4	6.1	7.0	4.0	4.5	6.3	5.5	5.6	5.2	5.3	5.5	6.1	7.6	5.4	4.2	5.7	3.8	6.6	4.5	5.9
SONOMA	5.9	7.7	6.1	5.0	6.3	5.5	7.1	5.3	7.1	7.1	4.7	4.6	5.4	5.7	5.1	5.7	5.4	5.1	5.6	6.7	5.8	5.2	5.7	3.7	6.7	4.5	5.8
SR 2284 (SRX 2284)	5.9	8.2	7.1	5.2	6.1	6.0	7.0	5.3	7.1	7.2	4.0	4.9	5.9	5.1	5.5	5.8	5.4	4.7	6.3	7.2	6.2	4.9	6.7	4.3	6.3	4.7	5.6
SRX 2114	6.0	7.4	6.4	5.4	5.8	5.6	7.1	5.2	6.5	7.2	5.0	4.9	5.1	5.0	5.7	5.9	5.3	4.8	6.5	6.8	5.9	4.4	5.8	4.0	6.0	4.4	6.7
SRX 2394	6.0	7.5	5.5	4.7	5.0	5.8	7.0	5.7	7.1	7.0	4.4	4.7	6.0	6.4	5.8	5.4	5.7	5.0	6.0	7.4	5.1	4.9	6.1	3.8	6.9	5.0	6.0
SRX 26351	6.0	7.6	5.5	5.6	6.2	5.3	6.8	5.9	7.1	6.8	4.5	4.8	5.4	5.6	5.8	6.8	5.3	5.1	6.2	7.5	6.6	4.5	5.9	3.6	6.3	3.9	6.5
SRX 27921	6.1	7.1	3.9	5.1	4.9	4.5	5.4	5.3	7.2	7.0	4.5	4.8	5.7	5.4	5.2	5.0	5.3	5.5	6.0	6.8	5.9	4.2	5.8	3.0	6.9	4.2	6.4
SRX QG245	6.1	7.3	3.8	5.2	5.1	4.5	6.4	5.7	6.2	7.1	4.4	4.8	3.9	5.1	4.5	4.7	5.3	6.2	4.0	5.3	5.0	4.7	6.3	3.1	6.1	3.5	4.0
TOTAL ECLIPSE	6.9	7.9	6.8	5.0	4.9	5.9	7.3	6.5	6.7	7.2	4.2	5.8	5.7	6.6	6.6	6.0	5.5	5.6	6.6	7.1	6.6	5.1	6.6	4.1	7.2	4.6	6.4
TSUNAMI (J-2487)	6.1	8.4	6.5	5.7	5.3	6.6	7.2	6.5	6.8	7.0	4.4	6.5	5.5	6.4	6.9	6.1	5.6	4.8	6.7	7.3	6.1	5.3	6.0	4.1	6.4	4.9	6.4
UNIQUE	6.4	7.3	6.8	5.8	6.1	6.3	7.4	5.9	7.2	7.2	3.6	6.2	5.8	5.9	5.5	5.1	5.3	5.8	6.2	7.3	7.2	5.0	5.7	4.1	6.4	4.4	6.3
UNKNOWN	6.2	8.2	6.9	5.7	5.6	5.7	7.1	6.3	6.9	7.2	4.6	6.4	6.0	6.2	6.5	6.8	5.4	4.5	6.6	7.7	6.8	4.6	6.6	4.1	6.9	4.4	6.7
WASHINGTON	6.0	7.1	5.5	5.5	5.7	5.3	6.6	5.0	5.8	7.1	4.1	4.6	4.7	4.7	4.0	4.5	5.3	5.9	5.4	5.1	6.0	4.6	5.9	3.7	5.9	3.8	4.5
WELLINGTON	5.6	7.6	5.4	5.2	5.9	5.7	5.9	4.5	5.8	7.2	4.0	4.3	4.3	4.6	3.9	4.2	5.2	5.8	5.8	5.3	5.8	4.5	5.9	3.9	5.6	3.5	3.8
WILDWOOD	5.5	7.7	6.0	5.4	5.6	5.6	7.0	5.5	6.8	7.4	5.1	5.1	5.1	5.3	5.4	6.0	5.1	5.9	6.3	6.2	6.1	4.6	5.6	4.1	6.4	4.8	6.5
LSD VALUE	0.2	0.9	1.2	0.8	1.1	1.1	0.4	0.7	1.0	0.5	1.1	1.1	0.8	0.8	0.7	0.7	0.6	1.2	0.6	0.9	0.9	1.0	1.1	0.7	1.0	0.9	0.7
C.V. (%)	2.4	7.1	12.8	9.3	12.4	12.5	3.4	7.5	9.2	4.2	16.9	13.0	9.4	9.1	8.4	8.4	6.7	14.8	6.1	8.0	9.5	12.6	11.5	11.4	10.0	12.4	7.2

Table 4. 2001 mean genetic color ratings of Kentucky bluegrass cultivars grown at twenty-seven locations in the US (9 = dark green)<sup>1</sup>

NAME	C01	IA1	IL2	IL3	IN1	KY1	MA1	MD1	ME1	MJ1	MN1	NC1	NE1	NE2	NJ1	NJ2	NY1	OH1	OK1	PA1	RI1	SD1	UT1	VA1	WA1	WA3	WI1	MEAN
MOONLIGHT	8.0	8.0	8.0	7.3	9.0	7.0	7.3	9.0	7.7	8.3	7.7	8.0	8.7	7.7	7.7	6.0	8.7	8.0	8.3	8.7	7.0	7.3	7.7	8.7	6.7	6.0	7.8	
MIDNIGHT	8.0	8.0	7.3	5.0	6.3	8.3	6.0	8.0	8.7	7.0	7.3	7.0	7.7	7.3	7.0	6.3	5.7	8.0	8.3	7.3	8.3	6.7	6.0	8.7	6.3	6.3	7.2	
PST-1QG-27	7.3	8.0	3.0	7.3	6.0	8.0	4.7	6.7	8.0	7.0	6.3	5.3	6.3	6.7	5.7	3.7	5.7	7.7	8.0	6.3	6.0	5.0	5.3	4.3	8.3	6.7	6.3	6.3
JULIA	6.3	8.0	4.3	4.3	6.0	7.0	4.7	7.0	8.0	7.3	6.7	4.3	7.7	7.0	5.3	5.0	6.0	7.0	7.0	5.3	7.0	5.3	5.7	6.3	8.0	4.7	6.0	6.2
SHAMROCK	6.3	7.0	5.3	5.0	6.0	8.0	6.3	7.0	7.7	6.7	6.0	6.7	6.3	5.3	5.0	6.0	7.3	7.0	4.3	7.0	4.7	4.7	6.0	7.3	5.0	6.0	6.2	
BARON	6.0	7.7	4.0	4.0	5.3	7.3	4.7	7.0	7.0	7.0	6.0	5.7	6.3	6.7	4.7	4.7	6.3	7.3	7.3	5.3	6.7	5.0	6.0	6.0	7.3	5.3	5.7	6.0
KENBLUE	4.7	7.3	1.3	4.3	5.0	6.7	3.0	5.3	6.7	7.0	5.0	3.3	5.0	6.0	3.7	2.7	5.7	5.3	6.7	5.7	5.0	4.0	4.7	4.3	6.0	5.7	6.0	5.0
LSD VALUE	0.7	0.6	1.6	1.9	0.8	1.0	1.3	0.8	1.1	0.9	1.3	1.3	0.8	1.0	1.3	1.4	0.9	0.9	0.7	1.1	1.1	0.8	1.0	1.2	0.9	1.1	0.8	0.2
C.V. (%)	6.6	4.7	20.7	21.1	8.4	7.4	15.0	7.2	8.7	8.1	13.1	12.9	7.5	8.4	13.9	16.5	9.8	7.0	6.0	11.1	10.6	9.5	10.3	13.2	7.4	11.7	8.0	10.5

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.

STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

'ables 3-17 contain selected data including top and bottom commercially available entries and selected standards.

Table 5. 2001 powdery mildew ratings of Kentucky bluegrass cultivars grown at 1 location in the US (9 = no disease)

Entry	IL3
Julia	9.0
PST-1QG-27	9.0
Kenblue	9.0
Shamrock	8.7
Baron	6.7
Midnight	5.3
Nuglade	2.7
LSD (0.05)	1.5

Table 6. 2001 snow mold ratings of Kentucky bluegrass cultivars grown at 1 location in the US (9 = no disease)

Entry	WI1
PST-B5-125	8.0
PST-1QG-27	7.0
Midnight	7.0
Shamrock	6.7
Kenblue	6.3
Julia	5.0
Baron	4.0
LSD (0.05)	1.5

Table 7. 2001 leaf rust ratings of Kentucky bluegrass cultivars grown at Raleigh, NC. (9 = no disease)

Entry	June	Nov	Mean
Midnight	9.0	9.0	9.0
PST-1QG-27	9.0	7.0	8.0
Baron	8.7	6.0	7.3
Shamrock	9.0	5.3	7.2
Julia	8.7	3.7	6.2
Kenblue	7.7	4.3	6.0
Julius	7.7	2.3	5.0
LSD (0.05)	1.1	2.8	1.6

Table 8. 2001 brown patch ratings of Kentucky bluegrass cultivars grown at Madison, WI. (9 = no disease)

Entry	July	Aug	Mean
PST-H6-150	9.0	9.0	9.0
Midnight	9.0	8.3	8.7
PST-1QG-27	9.0	7.7	8.3
Kenblue	9.0	7.7	8.3
Baron	9.0	6.7	7.8
Shamrock	7.7	7.7	7.7
Julia	9.0	6.0	7.5
Allure	6.7	5.3	6.0
LSD (0.05)	6.8	2.1	2.1

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE	<i>The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C.652a) and the Paperwork Reduction Act (PRA) of 1995.</i>	
<b>EXHIBIT E</b> <b>STATEMENT OF THE BASIS OF OWNERSHIP</b>		
1. NAME OF APPLICANT(S)  <b>Pure Seed Testing, Inc.</b>	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER  <b>PST-1QG-27</b>	3. VARIETY NAME  <b>Voyager II</b>
4. ADDRESS ( <i>Street and No., or R.F.D. No., City, State, and ZIP Code, and Country</i> )  <b>P.O. Box 449</b> <b>Hubbard, OR 97032</b>	5. TELEPHONE ( <i>include area code</i> ) <b>(503) 651-2130</b>	6. FAX ( <i>include area code</i> ) <b>(503) 263-0703</b>
	7. PVPO NUMBER: <b># 2 0 0 3 0 0 2 5 1</b>	

8. Does the applicant own all rights to the variety? *Mark an "X" in appropriate block. If no, please explain.*     YES     NO

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9. Is the applicant (individual or company) a U.S. national or U.S. based company?  
 If no, give name of country \_\_\_\_\_     YES     NO

10. Is the applicant the original breeder? If no, please answer the following:     YES     NO

- a. If original rights to variety were owned by individual(s):  
 Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country \_\_\_\_\_

- b. If original rights to variety were owned by a company:  
 Is the original breeder(s) U.S. based company? If no, give name of country \_\_\_\_\_     YES     NO

11. Additional explanation on ownership (*If needed, use reverse for extra space*):

**Pure Seed Testing, Inc. has licensed Voyager II (PST-1QG-27) to Turf-Seed, Inc., to grow, produce and market this variety throughout the world.**

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Plant variety protection can be afforded only to owners (now licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

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